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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/944,982	08/31/2001	Anthony D. Patire	12-1063	1910
20457	7590 02/20/2004		EXAMINER	
ANTONELLI, TERRY, STOUT & KRAUS, LLP 1300 NORTH SEVENTEENTH STREET			NGUYEN, LINH V	
SUITE 1800	SEVENTEENTH STREET		ART UNIT	PAPER NUMBER
ARLINGTO	N, VA 22209-9889		2819	
			DATE MAILED: 02/20/2004	4

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	
	09/944,982	PATIRE ET AL.	
Office Action Summary	Examiner	Art Unit	
	Linh V Nguyen	2819	
The MAILING DATE of this communication a Period for Reply	appears on the cover sheet w	ith the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REITHE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a lf NO period for reply is specified above, the maximum statutory perions for reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the material patent term adjustment. See 37 CFR 1.704(b).	N. 1.136(a). In no event, however, may a reply within the statutory minimum of this iod will apply and will expire SIX (6) MOI stute, cause the application to become A	reply be timely filed ty (30) days will be considered timely. NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 11	1 December 2003.		
	his action is non-final.		
3) Since this application is in condition for allow closed in accordance with the practice under	•	•	
Disposition of Claims			
4) Claim(s) 1-25 is/are pending in the application 4a) Of the above claim(s) is/are without 5) Claim(s) 1-11,25 is/are allowed. 6) Claim(s) 12,13,14,17,18,20-24 is/are rejected 7) Claim(s) 15,16,19 is/are objected to. 8) Claim(s) are subject to restriction and Application Papers	Irawn from consideration.		
9) The specification is objected to by the Exam 10) The drawing(s) filed on 29 October 2002 is/a Applicant may not request that any objection to t Replacement drawing sheet(s) including the corr 11) The oath or declaration is objected to by the	are: a) \square accepted or b) \square on the drawing (s) be held in abeyand rection is required if the drawing	nce. See 37 CFR 1.85(a). (s) is objected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the papplication from the International Bure * See the attached detailed Office action for a light section.	ents have been received. ents have been received in A riority documents have been eau (PCT Rule 17.2(a)).	pplication No received in this National Stage	
Attachment(s)	"□.		
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/Paper No(s)/Mail Date 	Paper No(Summary (PTO-413) s)/Mail Date nformal Patent Application (PTO-152)	

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DETAILED ACTION

Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claim 20 recites the limitation in claim 17. There is insufficient antecedent basis for this limitation in the claim.

No antecedent basis for "wherein each at least one buffer"

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 12, 13, 14 are rejected under 35 U.S.C. 102(b) as being anticipated by Curtis et al. U.S. patent 5,963,599.

Regarding to claim 12, on Col. 6 lines 1 - 14 and Fig. 7 of Curtis et al. disclosing a method for demodulating a modulated signal comprising: receiving at least one modulated input waveform (8, 8 Bit A/D out); determining all possible valid modulated waveforms (52 [Tv1, Tv2, Tv3]); comparing (48) the received at least one modulated input waveform (50) with the possible valid modulated waveforms (52) and determining

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bit decisions (54) representing a demodulation of the at least one modulated input waveform, each bit decision representing the valid modulated waveform closest to each received at least one modulated input waveform (Col. 10, Table 1, Col. 9 lines 59 – 67).

Regarding to claim 13, the modulate FSK of Curtis et al. as applied to claim 12 above disclose every aspect of applicant's claimed invention except for modulated GSMK wave form. How ever is has been held that a recitation is intended to be employed does not differentiate the claimed method from a prior art system satisfying the claimed method limitation. Ex Parte Masham, 2 USPQ2d 1647 (1987).

Regarding to claim 14, Curtis et al. further comprising: quantizing the at least one modulated input waveform to form quantized sequential signals (A/D converter with output 8 of Fig. 7 is a quantized, even though Curtis et al. does not explicitly disclose A/D converter is a quantizer, however On Col. 4, lines Fig. 1 Chethik et al. taught a demodulation system wherein 35a and 35b [Sampler and quantizer is a A/D converter], See MPEP & 2131.01 Multiple reference 35 U.S.C 102 rejection).

5. Claims 17, 18 and 21 – 24, are rejected under 35 U.S.C. 102(b) as being anticipated by Chethik et al. U.S. patent No. 5,898,737.

Regarding to claim 17, Fig. 7 of Chethik et al. as, disclose a demodulator comprising: a quantizer (35a, 35b), the quantizer receiving an input modulated waveform (13a), the quantizer quantizing the input modulated waveform producing quantized data (Col. 4 lines 42 – 45); and at least one memory device (10a) operatively connected to the quantizer, the at least one memory device containing bit decisions representing demodulation of the input modulated waveform (Col. 3 line 54), the

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quantized data being used to form an address to the at least one memory device (Col. 3 lines 38 – 43).

Regarding to claim 18, the demodulator further comprising at least one buffer (11), the at least one buffer operatively connected between the quantizer (35) and the at least one memory device (10), the at least one buffer forming the memory address using the quantized data and sending the memory address to the at least one memory device to obtain the bit decisions (Col. 4 lines 26 - 29).

Regarding to claim 21, wherein the at least one memory device is a ROM (10a).

Regarding to claim 22, wherein the at least one memory device is a RAM (10a).

Regarding to claims 23, and 24, wherein the quantizer is an angle or phase quantizer (35a, 35b for I, Q phase modulated signal).

Allowable Subject Matter

- 6. Claims 15, 16, and 19, are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 7. Claims 1 11, and 25 are allowed.

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Linh Van Nguyen whose telephone number is (571) 272-1810. The examiner can normally be reached from 8:30 – 5:00 Monday-Friday.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Michael Tokar can be reached at (571) 272-1812. The fax phone numbers for the organization where this application or proceeding is assigned are (703-872-9306) for regular communications and (703-872-9306) for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

LVN

02/07/04

Michael Tokar Supervisory Patent Examiner

Mulan J. Tokar

Technology Center 2600